

## A new Chinese *Bupleurum* (Umbelliferae)

**Sheng-Li Pan**

Faculty of Pharmacognosy, School of Pharmacy  
Shanghai Medical University  
Shanghai – 200 032,  
People's Republic of China

and

**Ping-Sheng HSU\***

Laboratory of Systematics and Evolutionary Botany  
Institute of Botany  
Chinese Academy of Sciences  
Beijing – 100 093  
People's Republic of China

---

### Abstract

A new species, *Bupleurum gansuense*, from Yuzhong County of Gansu Province of northwestern China, is described and figured, and compared with the most similar *B. microcephalum* Diels and *B. marginatum* Wall. ex DC. var. *stenophyllum* (Wolff) Shan et Y. Li. Besides a key is given for discriminating the four most closely related taxa of the genus.

***Bupleurum gansuense* S. L. Pan et Hsu, *sp. nov.***

**(Fig. 1)**

Species involucri phyllis numerosis (5–9) longioribus (1.2–8 mm) patentibus vel plus minusve reflexis, radii umbellae plurioribus (7) 8–10 (–12), floribus majoribus valde peculiaris. Proximum *B. marginatum* Wall. ex DC. var. *stenophyllum* (Wolff) Shan et Y. Li quod foliis marginibus cartilagineis, involucelli phyllis 1.5–2.5 mm longis, pedicellis brevioribus facile distinguitur. Haud dissimile etiam *B. microcephalum* Diels quod herba bienni, foliis tenuioribus, phyllis involucri 3–5 differt.

Perenne; tota planta glaberrima. Radix elongata, 3–5 mm crassa, brunnea vel cineracea, raro ramifer, pluriceps. Caules plerumque singulares, usque 50–100 cm alti, recti, graciles, firmi, ca. 1–2 mm diametro. Folia in sicco crasso chartacea, radicalia basin lincaria, 5–20 cm longa et 2–5 mm lata, apice apiculata vel breviacuminata, ad basin versus sensim in petiolum angustata, 5–nervia, nervis subtus valde prominentibus; caulina media et superiora inferioribus conformia, sed leviter parviora, 3–5–nervia. Umbellae 2–5 cm diametro, longe pedunculatae, pedunculis 1–5 cm longis; involucri phylla 5–9, minuta, lincaria, inaequalia, 1.2–8 mm longa et 0.1–0.5 mm lata, 1–3–nervia, patentibus vel plus minusve reflexis; radii (7)8–10 (–12), 1–3

---

\*Present address: Department of Environmental and Resources Biology, School of Life Sciences, Fudan University, Shanghai 200 433, People's Republic of China.

Sheng-Li Pan & Ping-Sheng Hsu

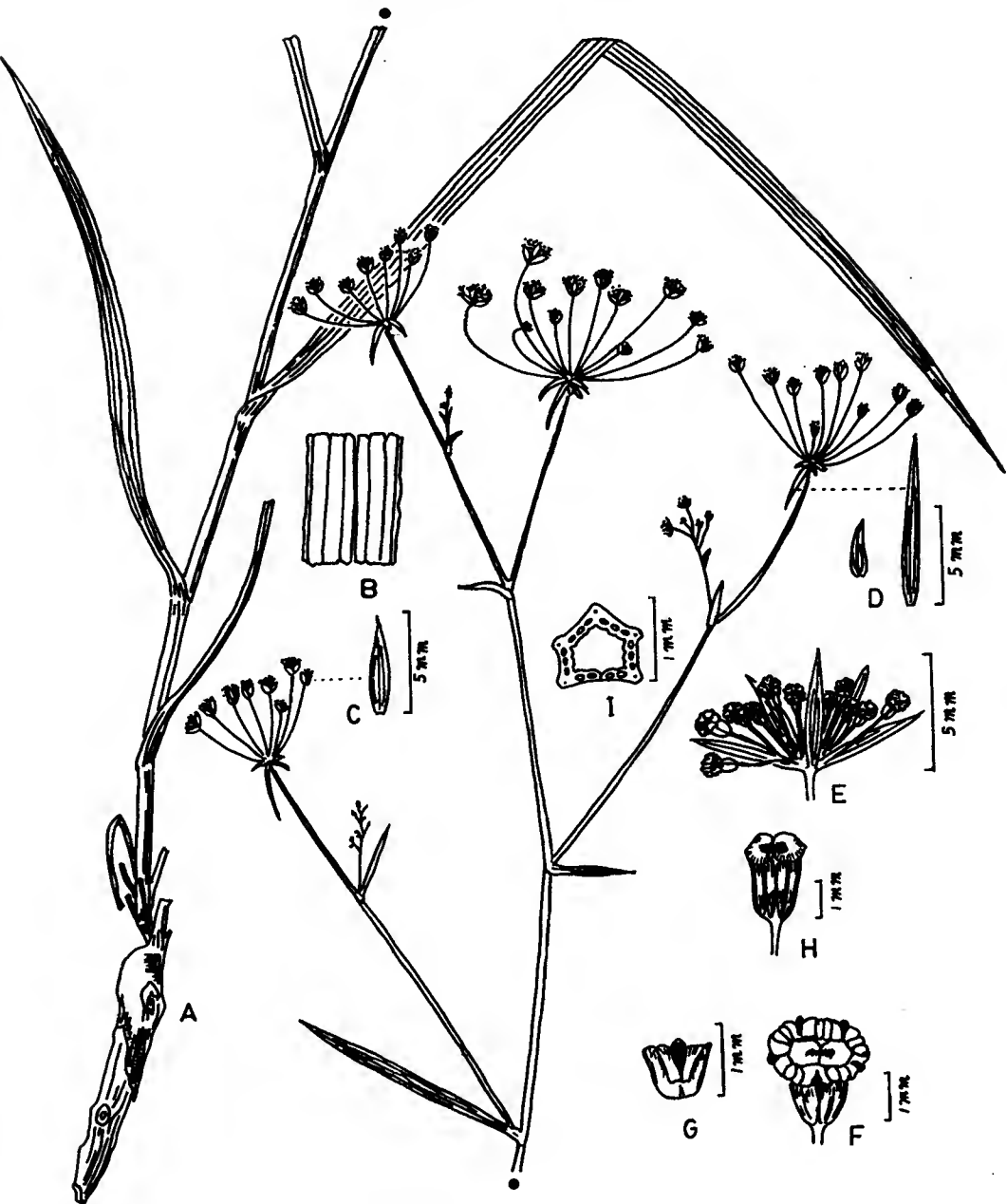


Fig.1. *Bupleurum gansuense* S. L. Pan et Hsu. A. Habit; B. Part of leaf; C. Involucel bract; D. Involucre bract; E. Umbellule; F. Flower; G. Petal; H. Fruit; I. C. S. of fruit.

A new Chinese *Bupleurum* (Umbelliferae)

cm longi; umbellulae 2–5 cm diametro; phylla involucelli 5, lanceolata, 3–5 mm longa et 0.5–0.7 mm lata, umbellulis floriferis longiora; flores in umbellula 8–14, breviter 2–3– pedicel-  
lati; petala flava, ca. 1.5–1.8 mm diametro; ligula subrectangulo, apice emarginato, petalorum  
tertiam partem subaequantia. Fructus subellipsoidei, 2.5 mm longi et 1 mm lati, pedicello  
2.5–4 mm longo, valleculis 4–sulcatis, 3–vittatis.

Type: CHINA. Gansu Province: Yuzhong County, alt. ca. 1900m, on open slope,  
margin of thickets, 9 Aug. 1993, S. L. Pan 0513 (PE).

Key to the four most closely related taxa of *Bupleurum*.

- 1. Involucre bracts less than 3, sometimes none; leaves less  
than 10 cm long.....*B. yinchowense* Shan et Y. Li
- 1. Involucre bracts more than 3; leaves more than 15 cm long:
  - 2. Incolucel bracts elliptical or spatulate;  
biennial herb .....*B. microcephalum* Diels
  - 2. Incolucel bracts lanceolate; perennial herb:
    - 3. Leaves cartilaginous marginated; flowers small, less than 1.2 mm in diameter;  
involucel bracts 1.5–2.5 mm long, shorter than pedicels .....  
.....*B. marginatum* Wall. ex DC. var. *stenophyllum* Shan et Y. Li
    - 3. Lcaves not cartilaginous marginated; flowers larger, 1.5–1.8 mm in diameter;  
involucel bracts 3–5 mm long, exceeding the umbellules .....  
.....*B. gansuense* S. L. Pan et Hsu